



955-7P-CON.ST25
SEQUENCE LISTING

RECEIVED
NOV 25 2002
TECH CENTER 1600/2900

<110> Cornell Research Foundation, Inc.
<120> THROMBOSPONDIN-BINDING REGION OF HISTIDINE-RICH GLYCOPROTEIN AND METHODS OF USE
<130> Docket 955-7P/CON
<140> 09/730,379
<141> 2000-12-05
<150> US 60/169,205
<151> 1999-12-06
<160> 19
<170> PatentIn version 3.1
<210> 1
<211> 75
<212> PRT
<213> Homo sapiens

<300>
<301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
<302> Amino acid sequence of human histidine-rich glycoprotein derived from the nucleotide sequence of its cDNA
<303> Biochemistry
<304> 25
<305> 8
<306> 2220-2225
<307> 1986-04-22
<308> GenBank/P04196
<309> 1987-03-20
<400> 1

Gly Pro Arg Pro Phe His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu
1 5 10 15

Pro Pro Leu Arg Lys Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe
20 25 30

Pro Ser Phe Pro Leu Pro His His Lys His Pro Leu Lys Pro Asp Asn
35 40 45

Gln Pro Phe Pro Gln Ser Val Ser Glu Ser Cys Pro Gly Lys Phe Lys
50 55 60

Ser Gly Phe Pro Gln Val Ser Met Phe Phe Thr
65 70 75

<210> 2
<211> 58
<212> PRT
<213> Homo sapiens
<300>

955-7P-CON.ST25

<301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 2

Ala Ser Phe Arg Val Asp Arg Ile Glu Arg Val Ala Arg Val Arg Gly
 1 5 10 15

Gly Glu Gly Thr Tyr Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg
 20 25 30

His His Phe Pro Arg His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp
 35 40 45

Leu Phe Tyr Asp Val Glu Ala Leu Asp Leu
 50 55

<210> 3
 <211> 9
 <212> PRT
 <213> Homo sapiens

DI
 <300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 3

Gly Pro Arg Pro Phe His Cys Arg Gln
 1 5

<210> 4
 <211> 29
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8

955-7P-CON.ST25

<306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/04196
 <309> 1987-03-20

<400> 4

Ile Gly Ser Val Tyr Arg Leu Pro Pro Leu Arg Lys Gly Glu Val Leu
 1 5 10 15

Pro Leu Pro Glu Ala Asn Phe Pro Ser Phe Pro Leu Pro
 20 25

<210> 5
 <211> 29
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 5

Asp Asn Gln Pro Phe Pro Gln Ser Val Ser Glu Ser Cys Pro Gly Lys
 1 5 10 15

Phe Lys Ser Gly Phe Pro Gln Val Ser Met Phe Phe Thr
 20 25

<210> 6
 <211> 7
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 6

Ala Ser Phe Arg Val Asp Arg
 1 5

955-7P-CON.ST25

<210> 7
 <211> 21
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 7

Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Tyr Phe Val
 1 5 10 15

Asp Phe Ser Val Arg
 20

<210> 8
 <211> 30
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 8

Asn Cys Pro Arg His His Phe Pro Arg His Pro Asn Val Phe Gly Phe
 1 5 10 15

Cys Arg Ala Asp Leu Phe Tyr Asp Val Glu Ala Leu Asp Leu
 20 25 30

<210> 9
 <211> 38
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA

955-7P-CON.ST25

<303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 9

Gly Pro Arg Pro Phe His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu
 1 5 10 15

Pro Pro Leu Arg Lys Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe
 20 25 30

Pro Ser Phe Pro Leu Pro
 35

<210> 10
 <211> 28
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196
 <309> 1987-03-20

<400> 10

Ala Ser Phe Arg Val Asp Arg Ile Glu Arg Val Ala Arg Val Arg Gly
 1 5 10 15

Gly Glu Gly Thr Tyr Phe Val Asp Phe Ser Val Arg
 20 25

<210> 11
 <211> 51
 <212> PRT
 <213> Homo sapiens

<300>
 <301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.
 <302> Amino acid sequence of human histidine-rich glycoprotein derived from the
 nucleotide sequence of its cDNA
 <303> Biochemistry
 <304> 25
 <305> 8
 <306> 2220-2225
 <307> 1986-04-22
 <308> GenBank/P04196

955-7P-CON.ST25

<309> 1987-03-20

<400> 11

Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Tyr Phe Val
1 5 10 15

Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe Pro Arg His Pro
20 25 30

Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr Asp Val Glu Ala
35 40 45

Leu Asp Leu
50

<210> 12

<211> 58

<212> PRT

<213> Homo sapiens

<300>

<301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.

<302> Amino acid sequence of human histidine-rich glycoprotein derived from the nucleotide sequence of its cDNA

<303> Biochemistry

<304> 25

<305> 8

<306> 2220-2225

<307> 1986-04-22

<308> GenBank/P04196

<309> 1987-03-20

<400> 12

Ala Ser Phe Arg Val Asp Arg Ile Glu Arg Val Ala Arg Val Arg Gly
1 5 10 15

Gly Glu Gly Thr Tyr Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg
20 25 30

His His Phe Pro Arg His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp
35 40 45

Leu Phe Tyr Asp Val Glu Ala Leu Asp Leu
50 55

<210> 13

<211> 38

<212> PRT

<213> Homo sapiens

<300>

<301> Koide,T., Foster,D., Yoshitake,S. and Davie,E.W.

<302> Amino acid sequence of human histidine-rich glycoprotein derived from the nucleotide sequence of its cDNA

955-7P-CON.ST25

<303> Biochemistry
<304> 25
<305> 8
<306> 2220-2225
<307> 1986-04-22
<308> GenBank/P04196
<309> 1987-03-20

<400> 13

Gly Pro Arg Pro Phe His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu
1 5 10 15

Pro Pro Leu Arg Lys Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe
20 25 30

Pro Ser Phe Pro Leu Pro
35

<210> 14
<211> 6
<212> PRT
<213> Homo sapiens

<400> 14

Cys Ser Val Thr Cys Gly
1 5

<210> 15
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> enterokinase cleavage sequence

<400> 15

Asp Asp Asp Asp Lys
1 5

<210> 16
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> scrambled peptide

<400> 16

Thr Val Ser Gly Cys Cys
1 5

<210> 17
<211> 4
<212> PRT

955-7P-CON.ST25

<213> Artificial Sequence

<220>

<223> synthetic control peptide

<400> 17

Arg Gly Asp Ser

1

<210> 18

<211> 55

<212> PRT

<213> Homo sapiens

<400> 18

Gly Pro Tyr Thr Tyr Arg Val Arg Phe Leu Ala Lys Glu Asn Val Thr
1 5 10 15

Gln Asp Glu Ala Asp Asn Thr Val Ser Phe Leu Gln Pro Asn Gly Ala
20 25 30

Ile Phe Glu Pro Ser Leu Ser Val Gly Thr Glu Ala Asp Asn Phe Thr
35 40 45

Val Leu Asn Leu Ala Val Ala
50 55

<210> 19

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> thrombin cleavage sequence

<400> 19

Arg Gly Ser Pro

1